



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Kawneer Company, Inc.  
555 Guthridge Court  
Norcross, Georgia 30092

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION:

Series "Trifab 451 Dry-Glazed" Aluminum Storefront System with Entrance OS Door - N. I.

**APPROVAL DOCUMENT:** Drawing No. 1441, titled "Trifab 451 Non-Impact Store Front & Entrance Way System", sheets 01 through 11 of 11, dated 10/17/05, with revision "D1" dated 07/24/14, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** None.

### LIMITATIONS:

1. When fixed panels vertical mullion "A or B" used with Door jamb mullion "C or D", the lower design pressures of combination governs.
2. Safety glazing materials per section 2406.3 are required at hazardous locations, as applicable with this system.
3. NOA deviation in HVHZ will require One-Time Approval (OTA) from Miami-Dade County.
4. Butt Hinges are located at 6" from top and at 9-<sup>3</sup>/<sub>4</sub>" from bottom also one at mid panel.  
The Pivot hinges are located at top and bottom also one intermediate hinge at middle of the door.
5. Approved Hurricane Protection devices complying w/ FBC are required for installation of this system.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series and following statement: "Miami-Dade County Product Control Approved", unless noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.



J. Gascon  
12/14/14

NOA No. 14-0811.22  
Expiration Date: April 20, 2017  
Approval Date: December 11, 2014  
Page 1



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Kawneer Company, Inc.

### NOTICE OF ACCEPTANCE

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 11-1027.13 and consists of these pages 1 and 2 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

J. Gascon  
12/4/14



NOA No. 14-0811.22  
Expiration Date: April 20, 2017  
Approval Date: December 11, 2014  
Page 2

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No. 05-1104.03)*
2. Drawing No. 1441, titled "Trifab 451 Non-Impact Store Front & Entrance Way System", sheets 01 through 11 of 11, dated 10/17/05, with revision "D1" dated 07/24/14, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with installation diagram of an aluminum storefront system including outswing entrance door, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0049-1117-04, dated 12/03/04-03/04/05, signed and sealed by Vinu J. Abraham, P. E.

*(Submitted under previous NOA No. 05-1104.03)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, conformance to and complying with **FBC 5<sup>th</sup> Edition (2014)**, dated 07/24/14, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.
2. **Glazing complies with ASTM E1300-04/ 09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters of no financial interest, independence, conformance to **ANSI/AAMA/ NWWDA 101/ I.S.2-97** and complying with **FBC 5<sup>th</sup> Edition (2014)**, both dated 07/24/14, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P. E.



Jaime D. Gascon, P.E.

Product Control Section Supervisor

NOA No. 14-0811.22

Expiration Date: April 20, 2017

Approval Date: December 11, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS (CONTINUED)**

2. Statement letters of conformance to **FBC-2010** and "No financial interest", both dated 10/11/11, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P. E.  
*(Submitted under previous NOA No. 11-1027.13)*
3. Statement letters of conformance to **FBC-2007** dated 04/15/08, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P. E.  
*(Submitted under previous NOA No. 08-1211.03)*
4. Laboratory compliance letter for Test Report No. **HTL-0049-1117-04**, issued by Hurricane Test Laboratory, Inc., dated 12/03/04-03/04/05, signed and sealed by Vinu J. Abraham, P. E.  
*(Submitted under previous NOA No. 05-1104.02)*

**G. OTHERS**

1. Notice of Acceptance No. **11-1027.13**, issued to Kawneer Company, Inc. for their Series "Trifab 451 Aluminum Storefront System with Entrance Door - N.I.", approved on 12/15/11 and expiring on 04/20/17.



Jaime D. Gascon, P.E.  
Product Control Section Supervisor

NOA No. 14-0811.22

Expiration Date: April 20, 2017

Approval Date: December 11, 2014

### GENERAL NOTES:

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, FORCED ENTRY & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOL TAS-202 FOR NON-IMPACT STORE FRONTS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THESE STORE FRONT SYSTEMS ARE NON-IMPACT RATED & MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
7. ALL ANCHORS SECURING STORE FRONT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED WHEN USED PER THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME & SILL ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS SCREW	1 3/8"	3/4"
MIN. 16 GA. 50 KSI METAL STUD	1/4-20 SELF TAPPING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-20 SELF TAPPING SCREW OR 1/4" THRU-BOLT	FULL	1/2"
(2) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).  
(2) CMU IS APPLICABLE AT SIDES ONLY.

### CORNER & FRAME END CONSTRUCTION:

**FRAME HEAD CORNER:** HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 4 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

**FRAME SILL CORNER:** SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

**HORIZONTAL FRAME MULLION END:** MULLION IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.

**DOOR TRANSOM MULLION END:** SEE SECTIONS E1/6, E2/6 & E3/6.

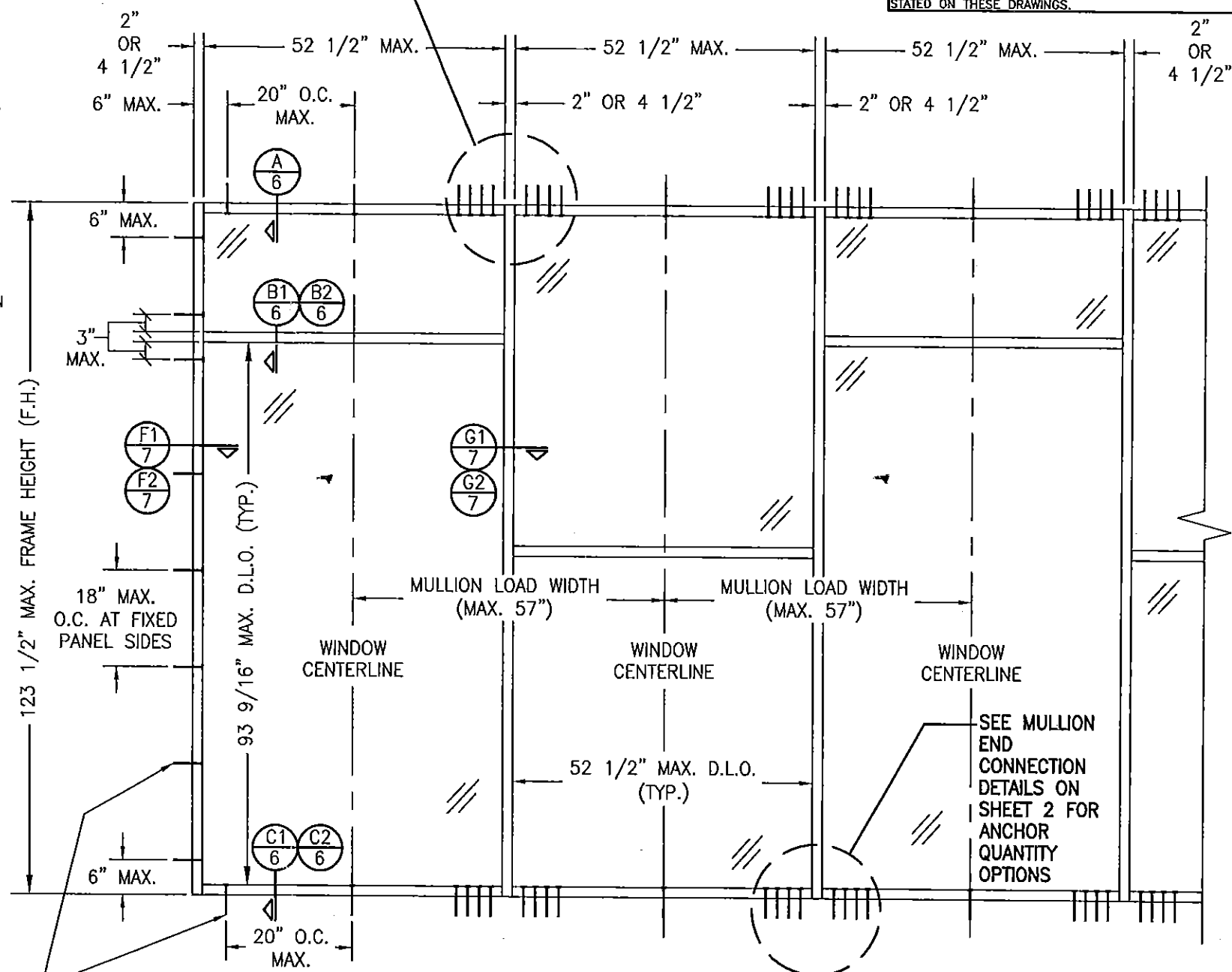
**DOOR HEAD FRAME CORNERS:** SEE SECTIONS L1/6, L2/6 & L3/6.

**DOOR SILL CORNER:** THRESHOLD WAS SQUARE CUT, BUTTED TO THE SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP & SEALED WITH SILICONE.

**DOOR PANEL TOP RAIL CORNERS:** AT EACH TOP CORNER, THE TOP RAIL END IS SQUARE CUT, BUTTED, AND ATTACHED TO THE VERTICAL STILE BY MEANS OF A 1.094" LONG WELD CLIP (KAWNEER PART #200-450, #200-452, OR #200-453). EACH WELD CLIP IS ATTACHED TO THE VERTICAL STILE USING TWO(2) 1/4-20 X 3/4" PHMS THAT PASSED THROUGH THE DOOR STILE AND ARE THREADED INTO 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED USING ONE(1), 1/2" DIAMETER PLUG WELD AND ONE(1), 1/4" X 1 1/8" FILLET WELD THAT ARE APPLIED TO BOTH WEBS OF THE TOP RAIL.

**DOOR PANEL BOTTOM RAIL CORNERS:** AT EACH BOTTOM CORNER, THE BOTTOM RAIL END IS SQUARE CUT, BUTTED, AND ATTACHED TO THE VERTICAL STILE BY MEANS OF A 1.094" LONG WELD CLIP (KAWNEER PART #200-451 OR #200-459). EACH WELD CLIP IS ATTACHED TO THE VERTICAL STILE USING TWO(2) 1/4-20 X 3/4" PHMS THAT PASSED THROUGH THE DOOR STILE AND ARE THREADED INTO 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED USING ONE(1), 1/2" DIAMETER PLUG WELD AND ONE(1), 1/4" X 1 1/8" FILLET WELD THAT ARE APPLIED TO BOTH WEBS OF THE TOP RAIL.

SEE MULLION END CONNECTION  
DETAILS ON SHEET 2 FOR  
ANCHOR QUANTITY OPTIONS



EXTERIOR ELEVATION  
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY

SCALE: 1/2"=1'-0"

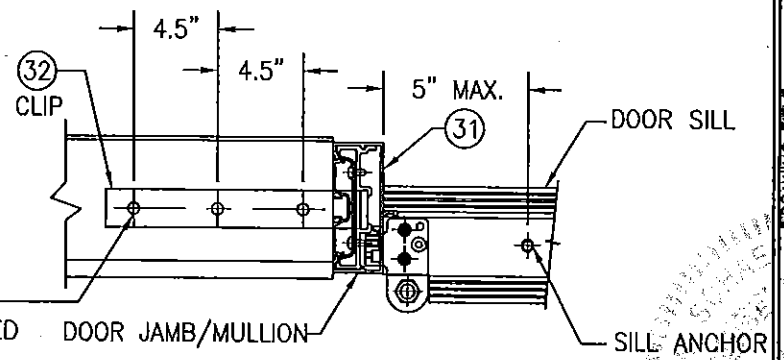
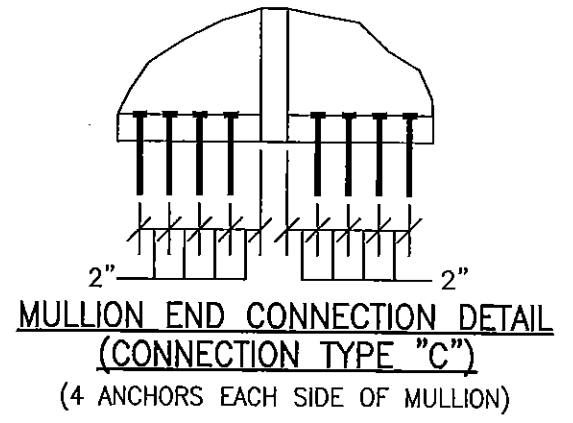
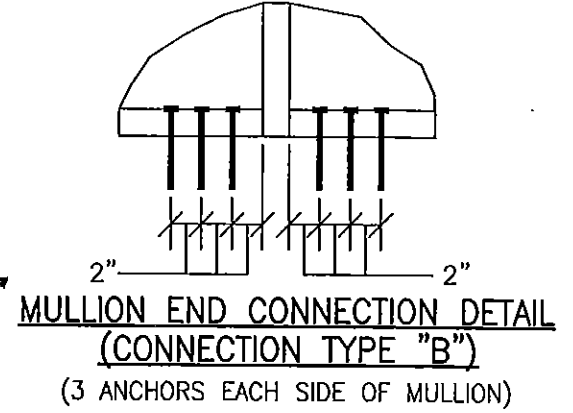
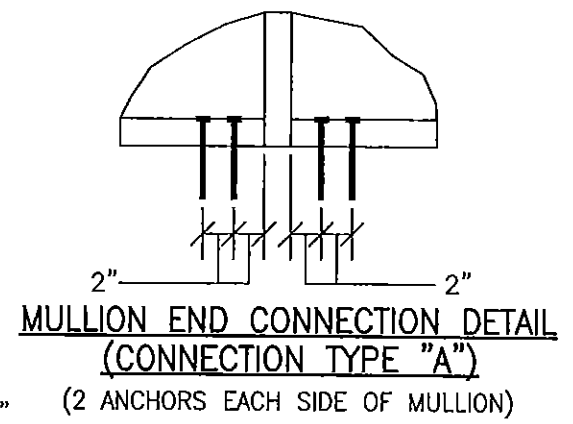
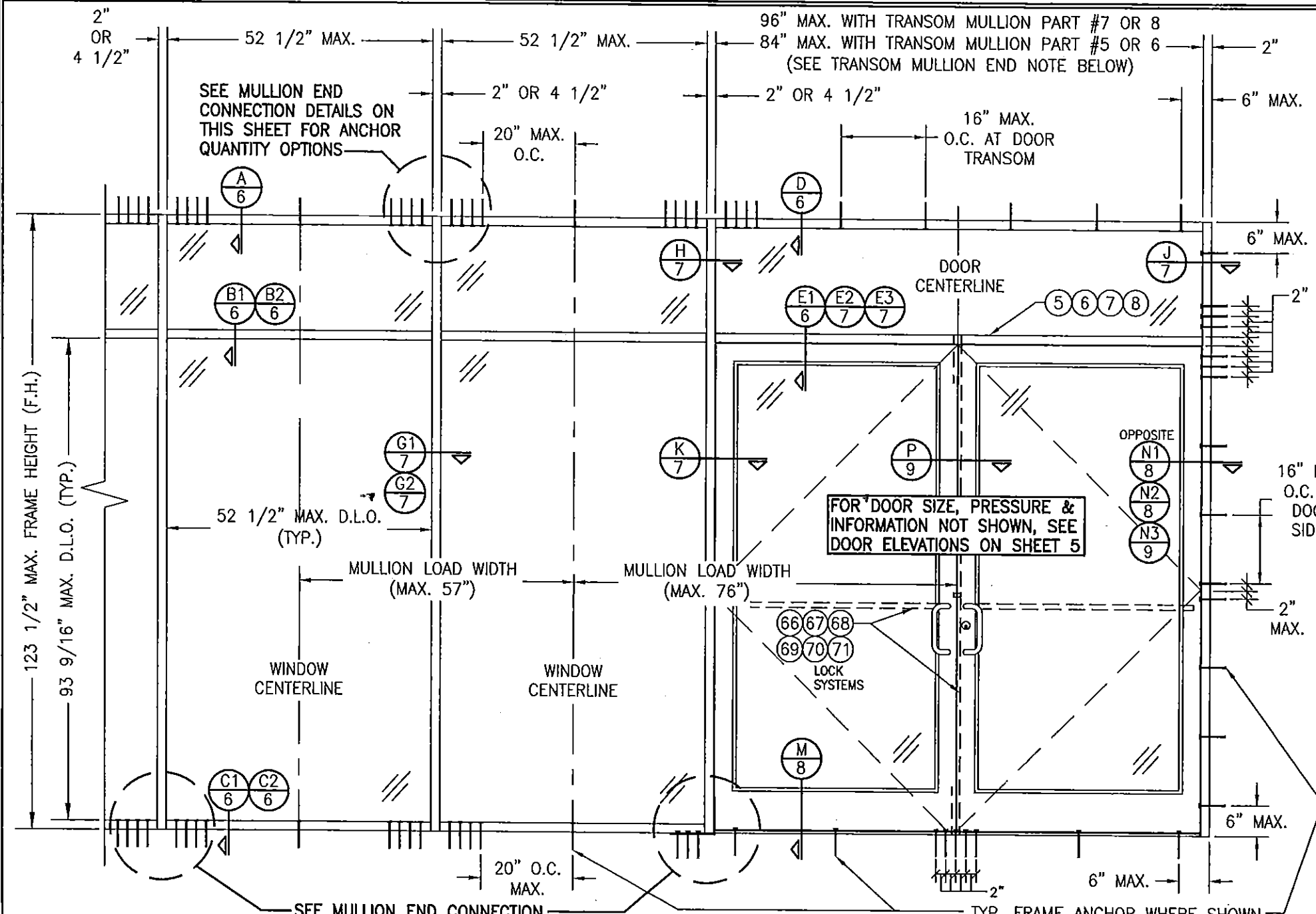
HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

ALLOWABLE DESIGN PRESSURE  
SEE LOAD TABLES ON SHEET 5

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0811.22  
Expiration Date 2/2/2017  
By [Signature]  
Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/17/05
DATE 11/11/08	DATE 07/07/08
BY W.W.S.	BY W.W.S.
REVISION DESCRIPTION 1. UPDATE TO PRESENT FBC & EDIT LOCK CALL-OUTS	REVISION DESCRIPTION 2. CHANGED PART #2 TO 2A & 2B 3. UPDATE TO CURRENT STANDARDS 4. INCREASED F.H. TO 123.5"
NO. A1	NO. B1 C1 D1
DRAWING TITLE TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JUL 24 2014 W. W. SCHAEFER, P.E. P.E. NO. 44193	
DRAWING NO. 1441	REV. D
SHEET NO. 1 OF 11	



**TRANSOM MULLION NOTE:**  
 WHEN TRANSOM MULLION PART #5 OR 6 IS USED, MULLION SPAN IS LIMITED TO MAX. 84". WHEN TRANSOM MULLION PART #7 OR 8 IS USED, MULLION SPAN MAY BE UP TO MAX. 96". SEE PARTS DRAWINGS FOR MULLION PARTS.

**EXTERIOR ELEVATION  
 STORE FRONT ASSEMBLY WITH DOORS & TRANSOM**  
 SCALE: 1/2"=1'-0"  
 NOTE: 1) FIXED PANELS MAY BE PLACED ON ONE OR BOTH SIDES OF DOORS.  
 2) DOORS MAY BE SINGLE OR DOUBLE DOORS.

**ALLOWABLE DESIGN PRESSURE**  
 SEE LOAD TABLES ON SHEET 5

(\*) THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

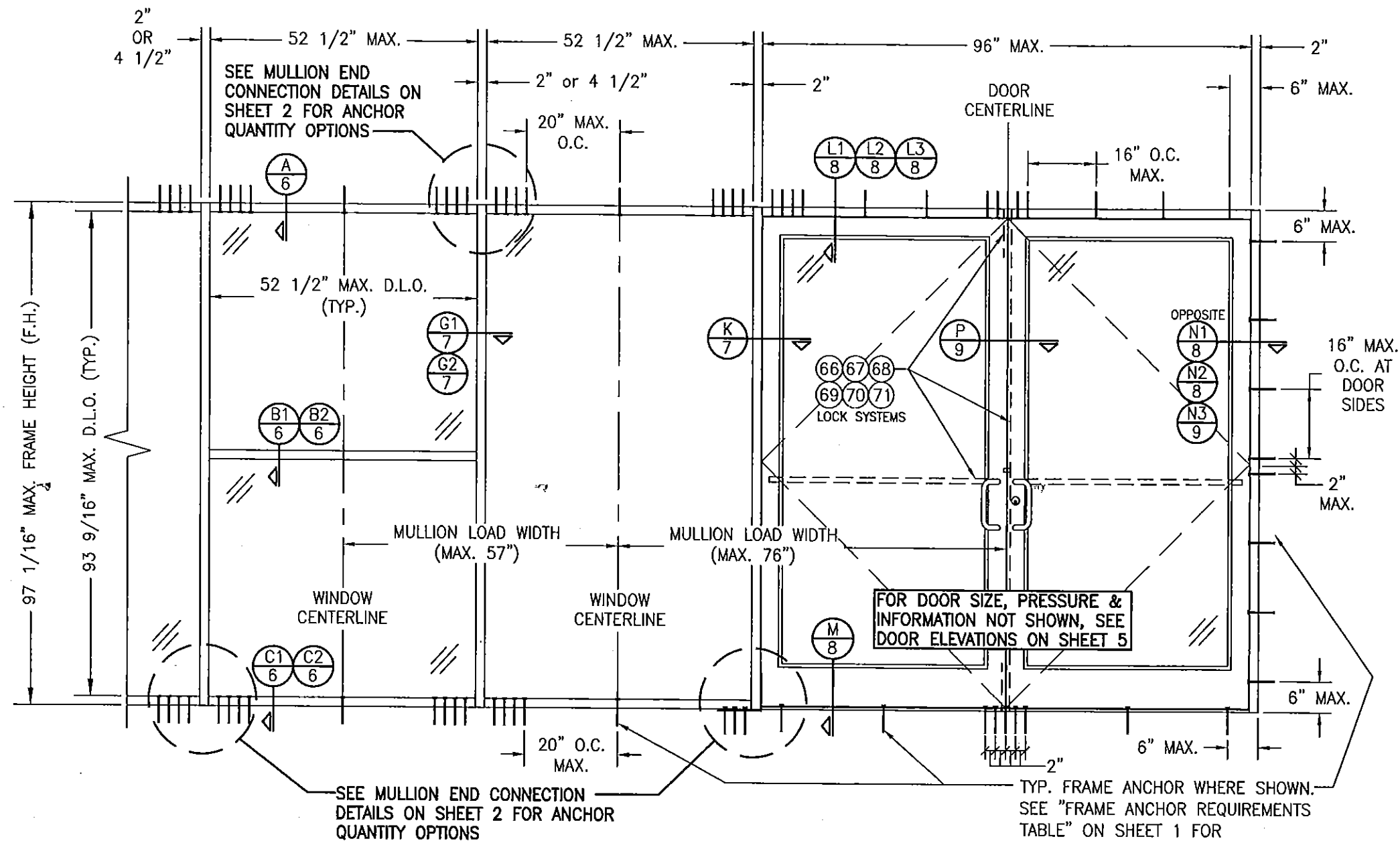
TYP. FRAME ANCHOR WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.  
 (NOTE: DOOR SILL ANCHORS INCLUDE 9 TOTAL AT DOUBLE DOORS & 3 TOTAL AT SINGLE DOORS AS SHOWN.)

THREE(3) 3/8" WEDGE/SLEEVE ANCHORS WITH MIN. 2 1/2" EMBED AND 2 1/2" EDGE DISTANCE (GALVANIZED STEEL OR S.S. RAMSET/RED HEAD DYNABOLT, HILTI KWIK-BOLT 3 OR POWERS RAWL POWER BOLT)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-081124  
 Expiration Date 2/4/2017  
 By *[Signature]*  
 Miami Dade Product Control

**MULLION END CONNECTION DETAIL  
 (AT DOOR SIDE JAMB MULLION)**  
 NOTE: THIS MULLION END CONNECTION IS EQUIVALENT IN PRESSURE CAPACITY TO CONNECTION TYPE "C".

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/17/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION	JUL 24 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1441		REV. D	
SHEET NO. 2		OF 11	



**EXTERIOR ELEVATION  
STORE FRONT ASSEMBLY WITH DOORS & NO TRANSOM**

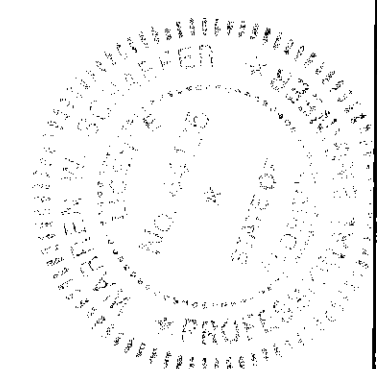
SCALE: 1/2"=1'-0"

NOTE: 1) FIXED PANELS MAY BE PLACED ON ONE OR BOTH SIDES OF DOORS.  
2) DOORS MAY BE SINGLE OR DOUBLE DOORS.

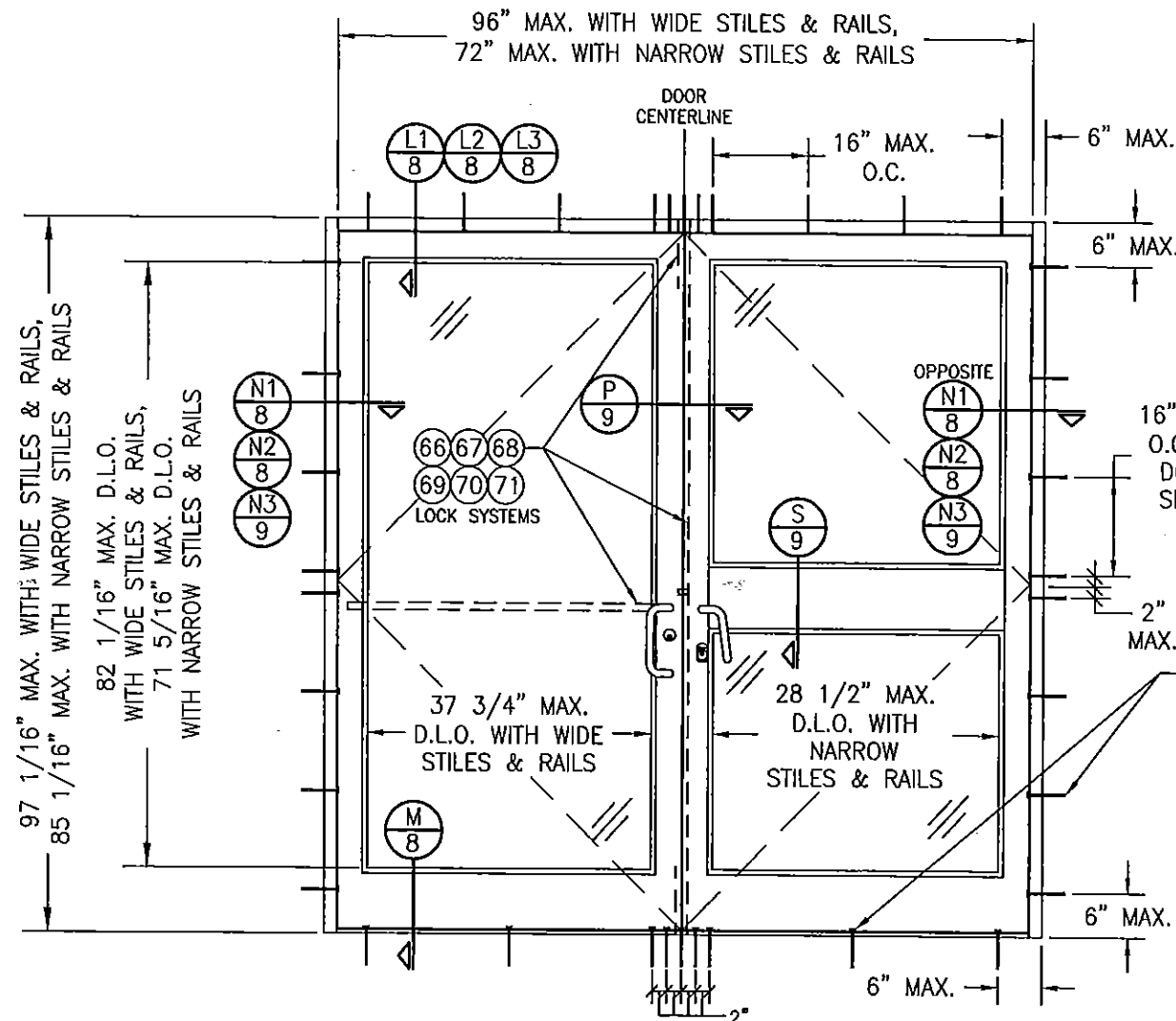
**ALLOWABLE DESIGN PRESSURE  
SEE LOAD TABLES ON SHEET 5**

(\*) THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. **14-0811.22**  
Expiration Date **04/22/2017**  
By *[Signature]*  
Miami Dade Product Control

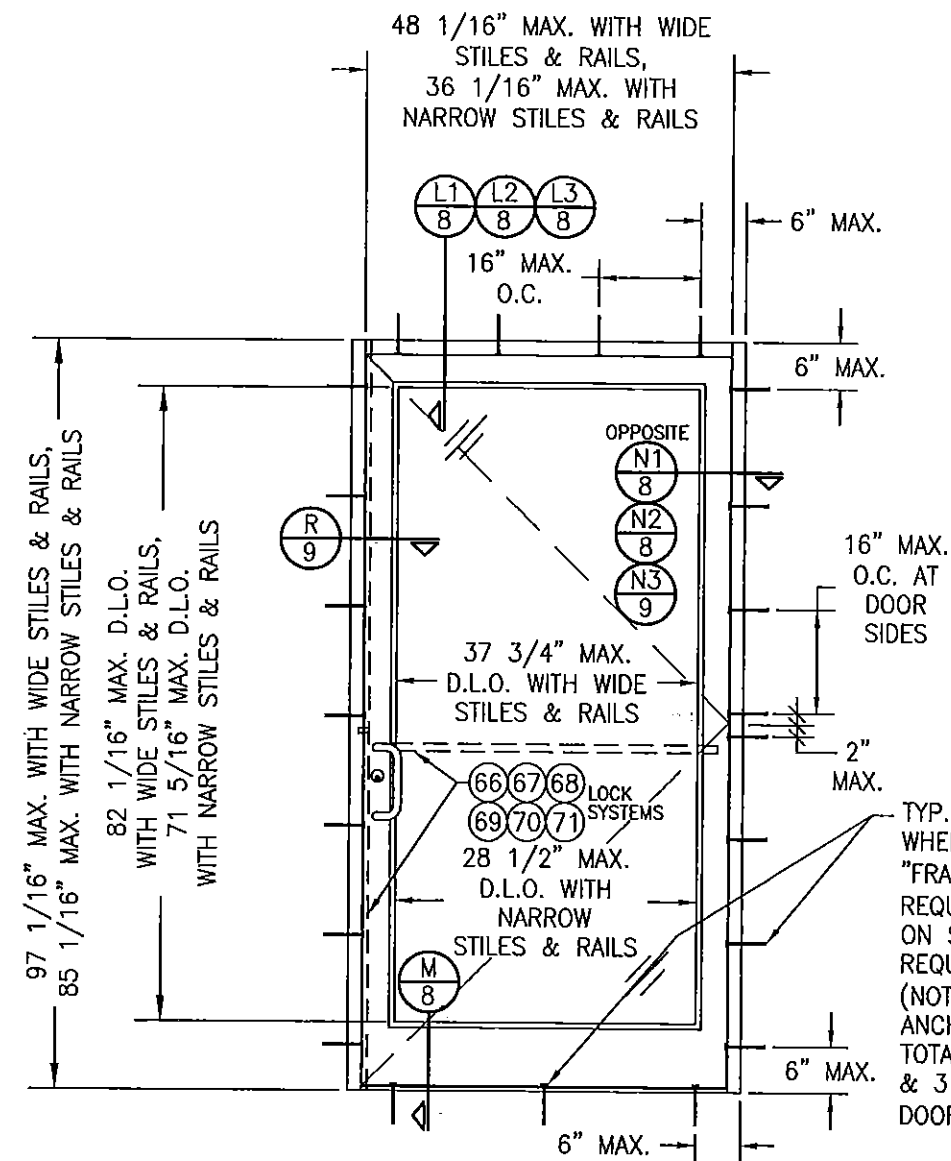


DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/17/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE <b>TRIFAB 451 NON-IMPACT STORE FRONT &amp; ENTRANCE WAY SYSTEM</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION <b>JUL 24 2014</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44133		DRAWING NO. <b>1441</b>	
		REV. <b>D</b>	
		SHEET NO. <b>3 OF 11</b>	



EXTERIOR ELEVATION  
DOUBLE DOOR ASSEMBLY  
SCALE: 1/2"=1'-0"

ALLOWABLE PRESSURE = +/-65 PSF

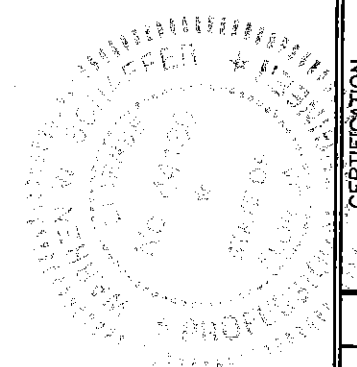


EXTERIOR ELEVATION  
SINGLE DOOR ASSEMBLY  
SCALE: 1/2"=1'-0"

ALLOWABLE PRESSURE = +/-65 PSF

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PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0811.22  
Expiration Date 04/20/2017  
By [Signature]  
Miami Dade Product Co.



DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/17/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUL 24 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44133		DRAWING NO. 1441 SHEET NO. 4 OF 11	



VERTICAL MULLION LOAD TABLE (MULLION "A")				
UNREINFORCED FIXED PANEL VERTICAL MULLION				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	CONNECTION "A" (PSF)	CONNECTION "B" (PSF)
86	57	42.1	47.6	47.6
	51	47.0	53.2	53.2
	45	53.3	60.3	60.3
	39	61.5	65.0	65.0
	33	65.0	65.0	65.0
80	57	45.2	59.1	59.1
	51	50.5	65.0	65.0
	45	57.3	65.0	65.0
	39	65.0	65.0	65.0
74	57	48.9	65.0	65.0
	51	54.6	65.0	65.0
	45	61.9	65.0	65.0
68	57	53.2	65.0	65.0
	51	59.5	65.0	65.0
	45	65.0	65.0	65.0
62	57	58.3	65.0	65.0
	51	65.0	65.0	65.0
56	57	64.6	65.0	65.0

VERTICAL MULLION LOAD TABLE (MULLION "B")				
FIXED PANEL VERTICAL MULLION REINFORCED WITH SINGLE CHANNEL				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	CONNECTION "A" (PSF)	CONNECTION "B" (PSF)
123.5	57	29.3	59.6	59.6
	51	32.7	65.0	65.0
	45	37.1	65.0	65.0
	39	42.8	65.0	65.0
	33	50.6	65.0	65.0
	27	61.8	65.0	65.0
	21	65.0	65.0	65.0
	57	30.1	61.9	65.0
	51	33.7	65.0	65.0
	45	38.2	65.0	65.0
120	39	44.1	65.0	65.0
	33	52.1	65.0	65.0
	27	63.6	65.0	65.0
	21	65.0	65.0	65.0
	57	33.5	65.0	65.0
	51	37.4	65.0	65.0
	45	42.4	65.0	65.0
	39	49.0	65.0	65.0
	33	57.9	65.0	65.0
	27	65.0	65.0	65.0
98	57	36.9	65.0	65.0
	51	41.3	65.0	65.0
	45	46.8	65.0	65.0
	39	54.0	65.0	65.0
	33	63.8	65.0	65.0
	27	65.0	65.0	65.0
	57	42.1	65.0	65.0
	51	47.0	65.0	65.0
	45	53.3	65.0	65.0
	39	61.5	65.0	65.0
86	33	65.0	65.0	65.0
	57	45.2	65.0	65.0
	51	50.5	65.0	65.0
	45	57.3	65.0	65.0
	39	65.0	65.0	65.0
	57	48.9	65.0	65.0
	51	54.6	65.0	65.0
	45	61.9	65.0	65.0
	39	65.0	65.0	65.0
	57	53.2	65.0	65.0
80	51	59.5	65.0	65.0
	45	61.9	65.0	65.0
	57	58.3	65.0	65.0
	51	65.0	65.0	65.0
	57	64.6	65.0	65.0

VERTICAL MULLION LOAD TABLE (MULLION "C")				
DOOR JAMB VERTICAL MULLION REINFORCED WITH SINGLE CHANNEL				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	CONNECTION "A" (PSF)	CONNECTION "B" (PSF)
98	76	27.7	56.8	59.9
	72	29.2	60.0	63.2
	66	31.9	65.0	65.0
	60	35.1	65.0	65.0
	54	39.0	65.0	65.0
	48	43.8	65.0	65.0
	42	50.1	65.0	65.0
	36	58.4	65.0	65.0
	30	65.0	65.0	65.0
	76	31.5	64.8	65.0
86	72	33.3	65.0	65.0
	66	36.3	65.0	65.0
	60	40.0	65.0	65.0
	54	44.4	65.0	65.0
	48	50.0	65.0	65.0
	42	57.1	65.0	65.0
	36	65.0	65.0	65.0
	76	33.1	65.0	65.0
	72	34.9	65.0	65.0
	66	38.1	65.0	65.0
82	60	41.9	65.0	65.0
	54	46.6	65.0	65.0
	48	52.4	65.0	65.0
	42	59.9	65.0	65.0
	36	65.0	65.0	65.0
	57	48.9	65.0	65.0
	51	54.6	65.0	65.0
	45	61.9	65.0	65.0
	39	65.0	65.0	65.0
	57	53.2	65.0	65.0
74	51	59.5	65.0	65.0
	45	61.9	65.0	65.0
	57	58.3	65.0	65.0
	51	65.0	65.0	65.0
	57	64.6	65.0	65.0

VERTICAL MULLION LOAD TABLE (MULLION "D")				
DOOR JAMB VERTICAL MULLION REINFORCED WITH TWO CHANNELS				
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	CONNECTION "A" (PSF)	CONNECTION "B" (PSF)
123.5	76	22.0	45.1	47.9
	72	23.2	47.6	50.5
	66	25.3	51.9	55.1
	60	27.8	57.1	60.6
	54	30.9	63.5	65.0
	48	34.8	65.0	65.0
	42	39.8	65.0	65.0
	36	46.4	65.0	65.0
	30	55.7	65.0	65.0
	24	65.0	65.0	65.0
120	76	22.6	46.4	52.2
	72	23.9	49.0	55.1
	66	26.0	53.5	60.1
	60	28.6	58.8	65.0
	54	31.8	65.0	65.0
	48	35.8	65.0	65.0
	42	40.9	65.0	65.0
	36	47.7	65.0	65.0
	30	57.3	65.0	65.0
	24	65.0	65.0	65.0
108	76	25.1	51.6	58.0
	72	26.5	54.4	61.2
	66	28.9	59.4	65.0
	60	31.8	65.0	65.0
	54	35.4	65.0	65.0
	48	39.8	65.0	65.0
	42	45.5	65.0	65.0
	36	53.0	65.0	65.0
	30	63.6	65.0	65.0
	24	65.0	65.0	65.0
98	76	27.7	56.8	63.9
	72	29.2	60.0	65.0
	66	31.9	65.0	65.0
	60	35.1	65.0	65.0
	54	39.0	65.0	65.0
	48	43.8	65.0	65.0
	42	50.1	65.0	65.0
	36	58.4	65.0	65.0
	30	65.0	65.0	65.0
	76	31.5	64.8	65.0
86	72	33.3	65.0	65.0
	66	36.3	65.0	65.0
	60	40.0	65.0	65.0
	54	44.4	65.0	65.0
	48	50.0	65.0	65.0
	42	57.1	65.0	65.0
	36	65.0	65.0	65.0
	76	33.1	65.0	65.0
	72	34.9	65.0	65.0
	66	38.1	65.0	65.0
82	60	41.9	65.0	65.0
	54	46.6	65.0	65.0
	48	52.4	65.0	65.0
	42	59.9	65.0	65.0
	36	65.0	65.0	65.0

GLASS LOAD TABLE		
DAY LIGHT OPENING (D.L.O.)	ALLOWABLE PRESSURE (+/- PSF)	
MAXIMUM LONG SIDE (IN.)	MAXIMUM SHORT SIDE (IN.)	
GLASS OPTION 1		
96.0	34.0	65.0
93.5	52.5	65.0
GLASS OPTION 2		
96.0	34.0	65.0
93.5	38.5	65.0
87.0	41.5	65.0
81.0	44.5	65.0
75.0	48.0	65.0
69.0	52.5	65.0
GLASS OPTION 3		
93.5	18.0	65.0
87.0	19.5	65.0
81.0	21.0	65.0
75.0	23.0	65.0
69.0	25.0	65.0
63.0	27.0	65.0
57.0	30.0	65.0
46.0	37.0	65.0
43.0	40.0	65.0
GLASS OPTION 1: 1/4" TEMPERED PANES		
GLASS OPTION 2: 1/4" H.S. PANES		
GLASS OPTION 3: 1/4" AN. PANES		
NOTE: GLASS SHALL MEET ALL REQUIREMENTS OF CHAPTER 24 OF THE FLORIDA BUILDING CODE (FBC) INCLUDING ALL APPLICABLE SAFETY REQUIREMENTS.		

MULLION "A" = VERTICAL MULLION BETWEEN FIXED PANELS WITH NO REINFORCEMENT  
MULLION "B" = VERTICAL MULLION BETWEEN FIXED PANELS WITH ONE(1) CONTINUOUS STEEL CHANNEL FOR REINFORCEMENT  
MULLION "C" = VERTICAL MULLION BETWEEN DOORS AND FIXED PANELS WITH ONE(1) CONTINUOUS STEEL CHANNEL FOR REINFORCEMENT.  
MULLION "D" = VERTICAL MULLION BETWEEN DOORS AND FIXED PANLES WITH TWO(2) CONTINUOUS STEEL CHANNELS FOR REINFORCEMENT.

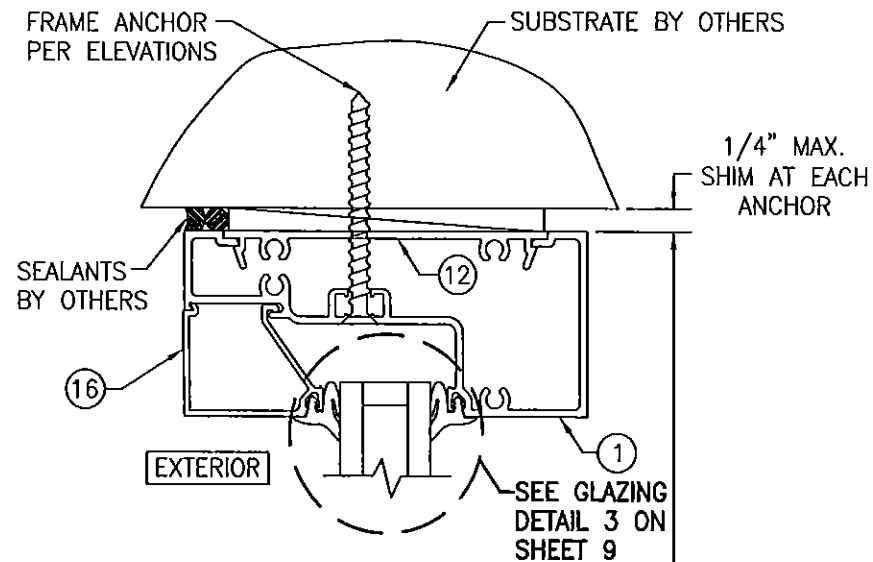
#### LOAD TABLE NOTES:

1. THE LESSER OF THE LOADS DETERMINED FROM THE MULLION LOAD TABLES AND THE GLASS LOAD TABLE SHALL CONTROL FOR THE ASSEMBLED UNIT.
2. ALL LOADS IN THE GLASS LOAD TABLE ARE AS RESTRICTED BY TESTING AND THE CURRENT ASTM E1300 STANDARD.
3. ALL LOADS IN THE MULLION LOAD TABLES HAVE BEEN DETERMINED BASED ON THE WEAKEST CONDITION OF USING THE 1 3/4" WIDE FRAMING MEMBERS. IT IS POSSIBLE THAT THE ALLOWABLE LOADS MAY INCREASE WITH USE OF THE 4 1/2" WIDE FRAMING MEMBERS, BUT CONSIDERATION OF THIS INCREASE IS NOT APPLICABLE TO THIS APPROVAL. INCREASE IN MULLION LOADS DUE TO USE OF THE 4 1/2" FRAMING MEMBERS SHALL BE REVIEWED AND CERTIFIED BY A FLORIDA LICENSED ENGINEER UNDER A JOB SPECIFIC APPROVAL.

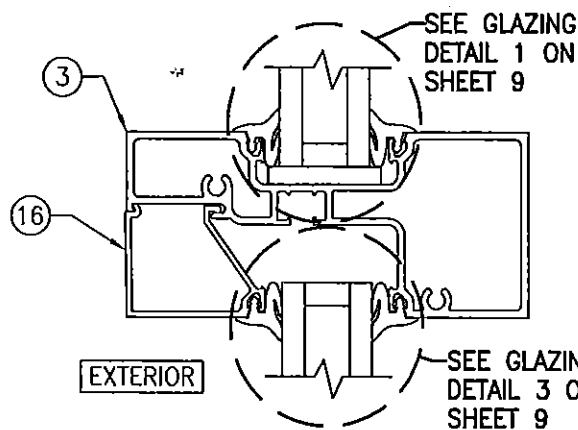
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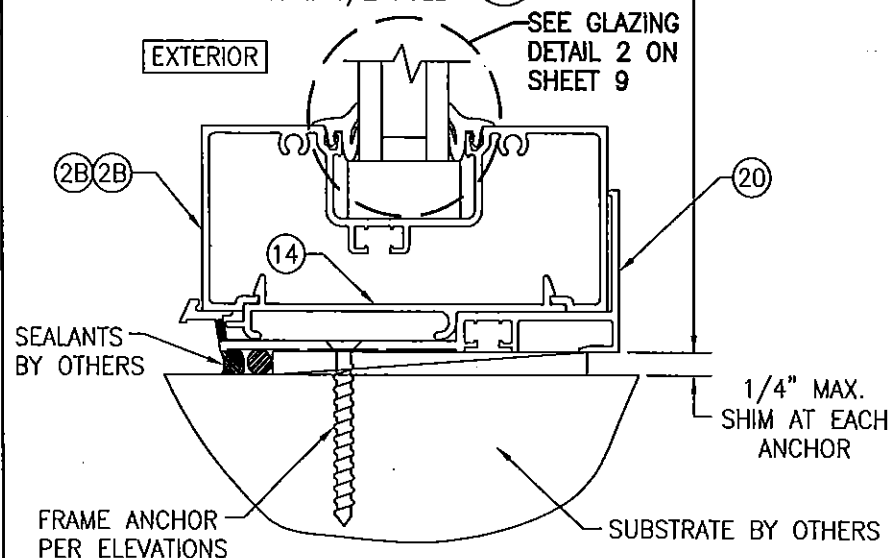
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DATE	BY	REVISION	DESCRIPTION
NO.			
DRAWING TITLE TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUL 24 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1441 SHEET NO. 5 OF 11	



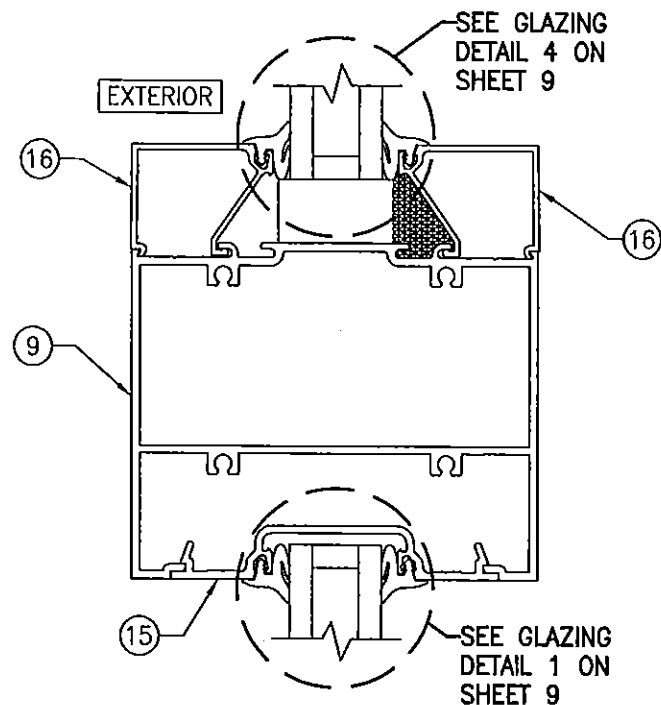
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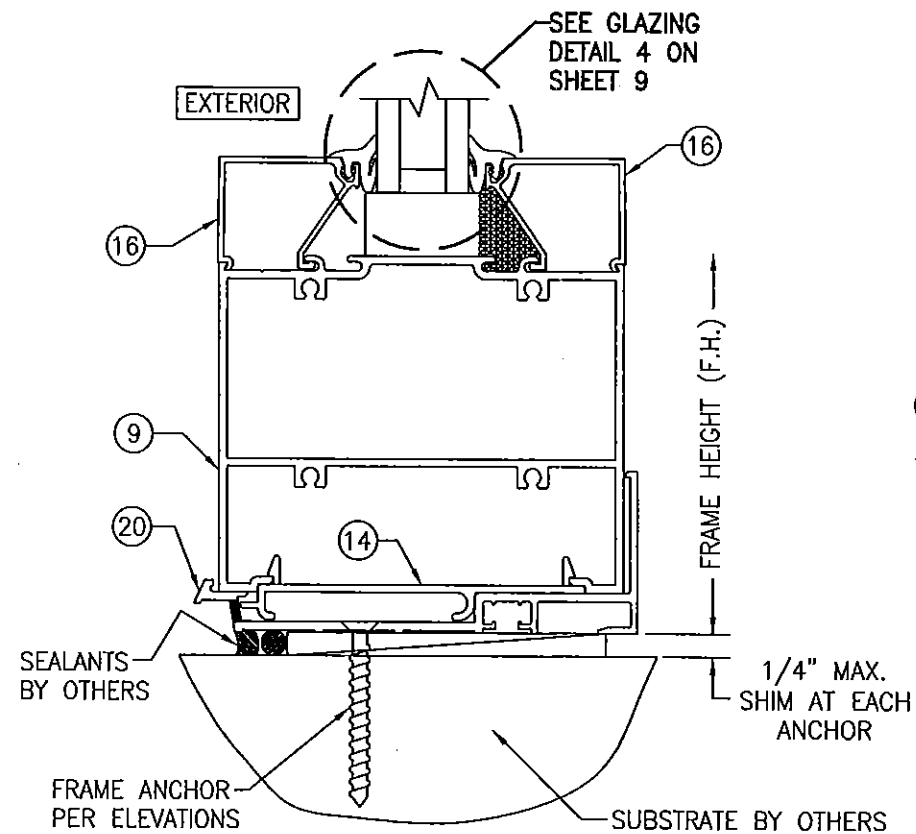
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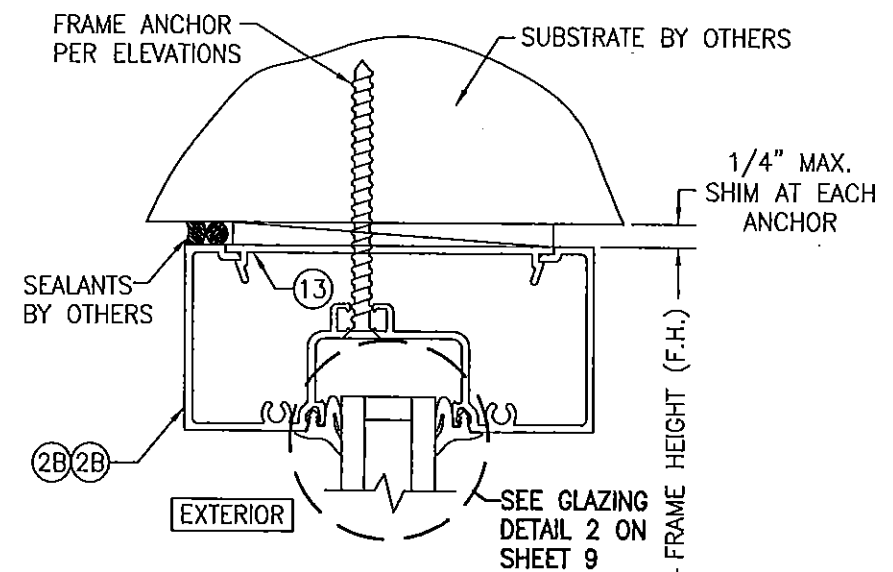
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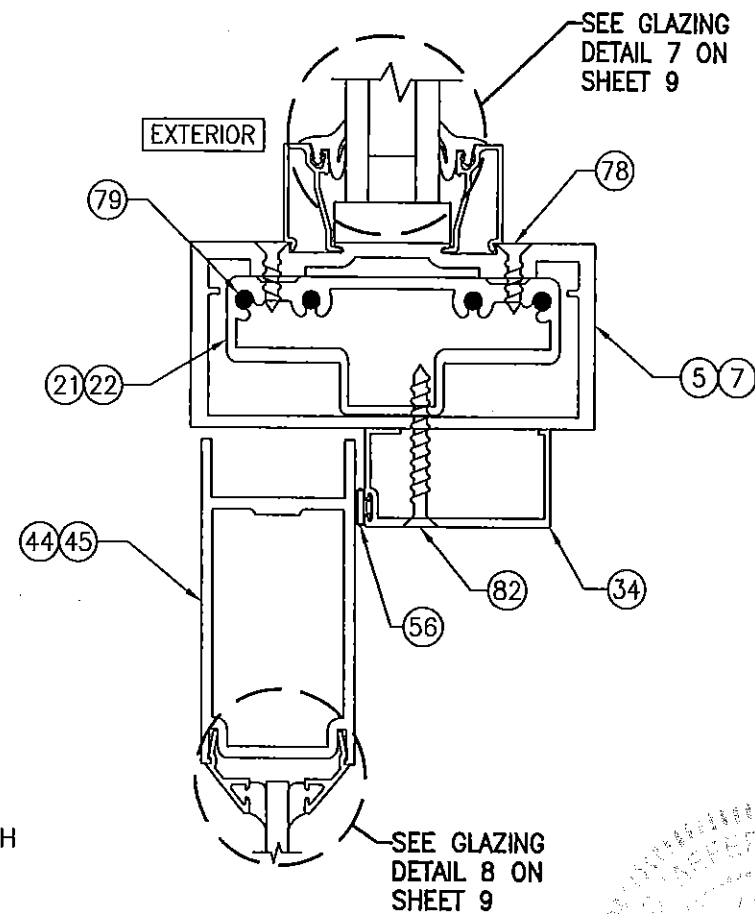
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SECTION C2-6  
SCALE: 1/2 FULL



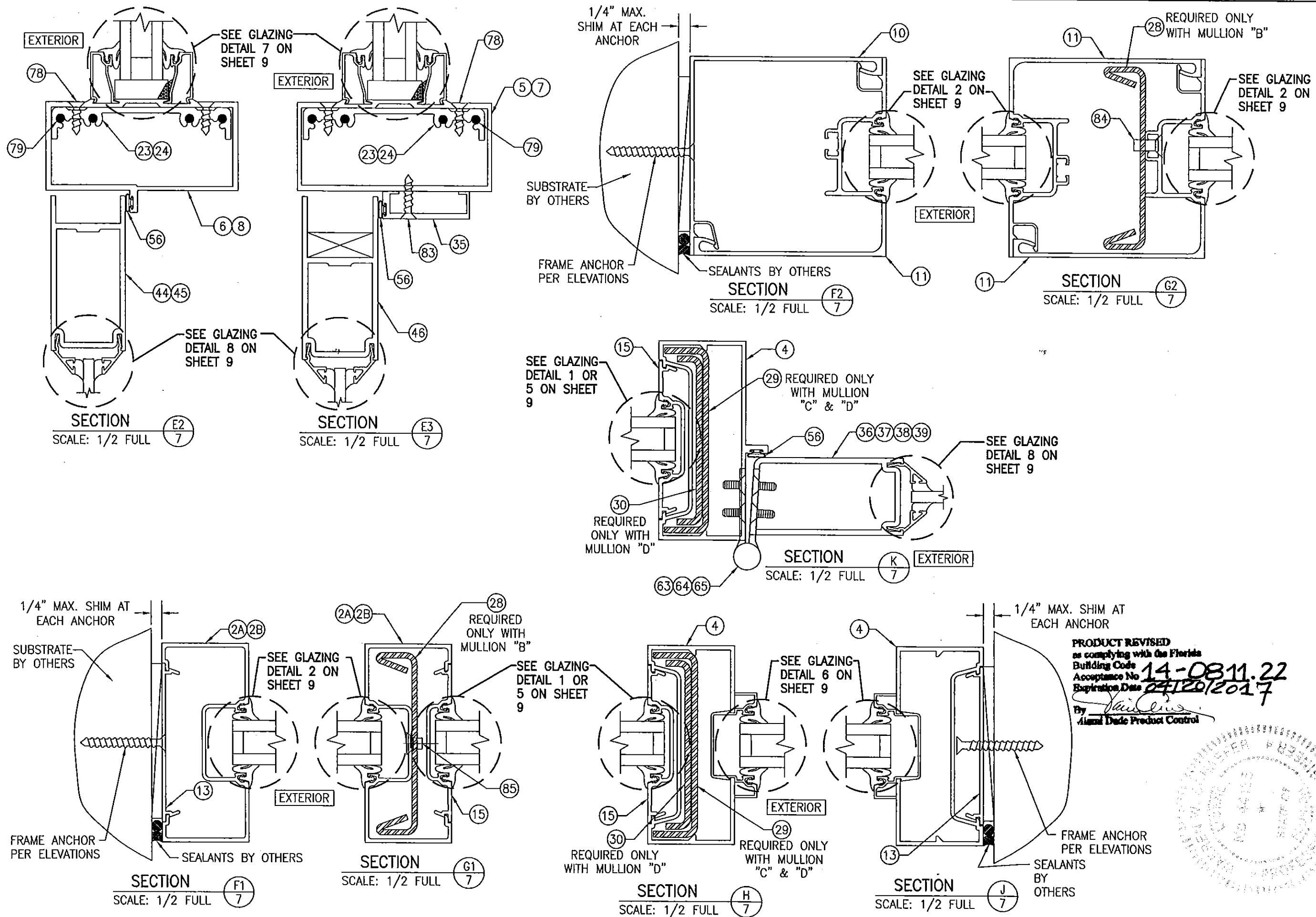
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SECTION E1-6  
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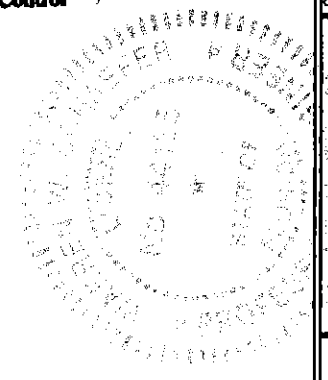
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By *Warren W. Schaefer*  
Miami Dade Product Control

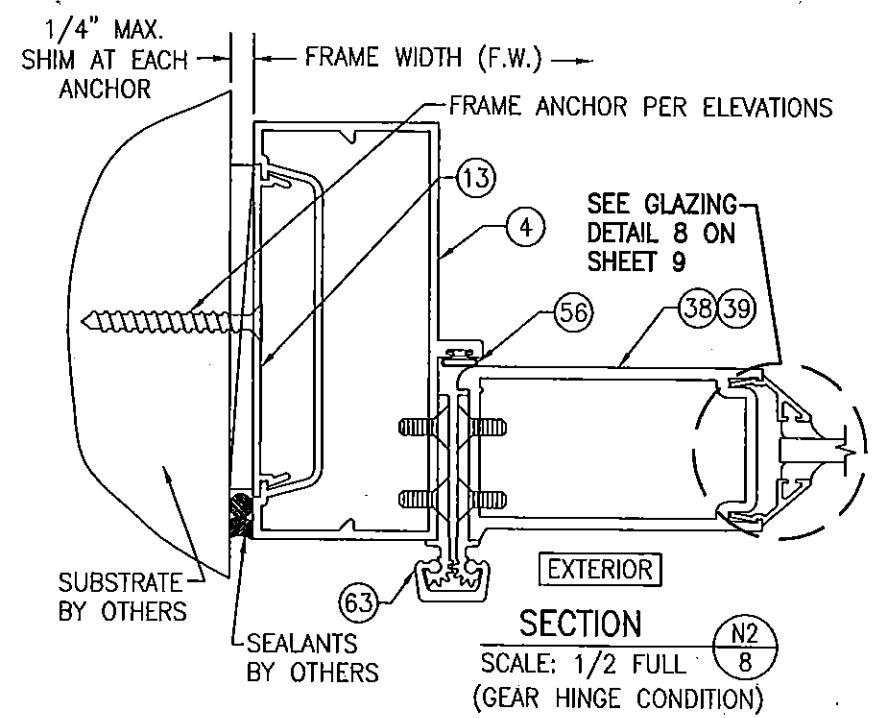
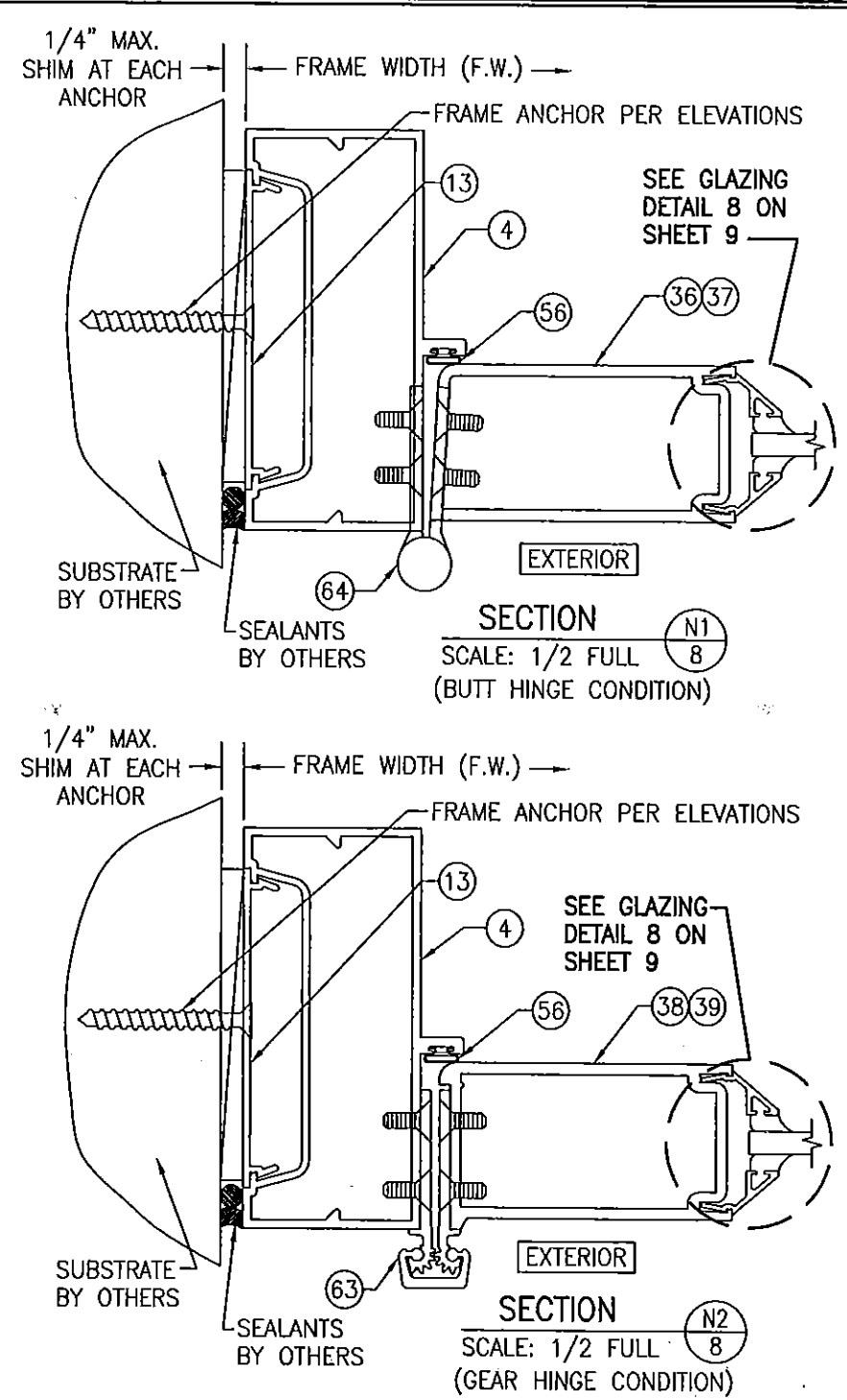
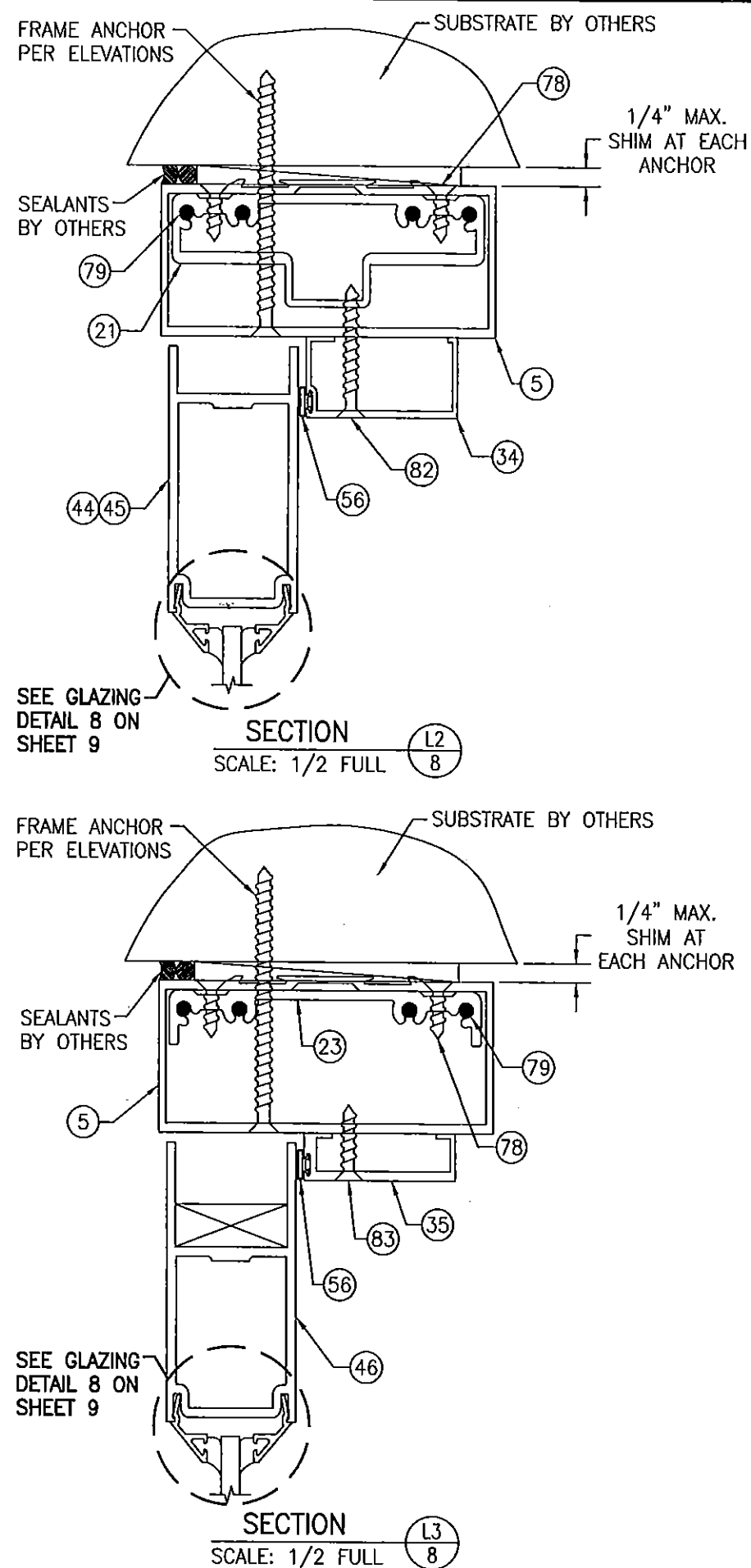
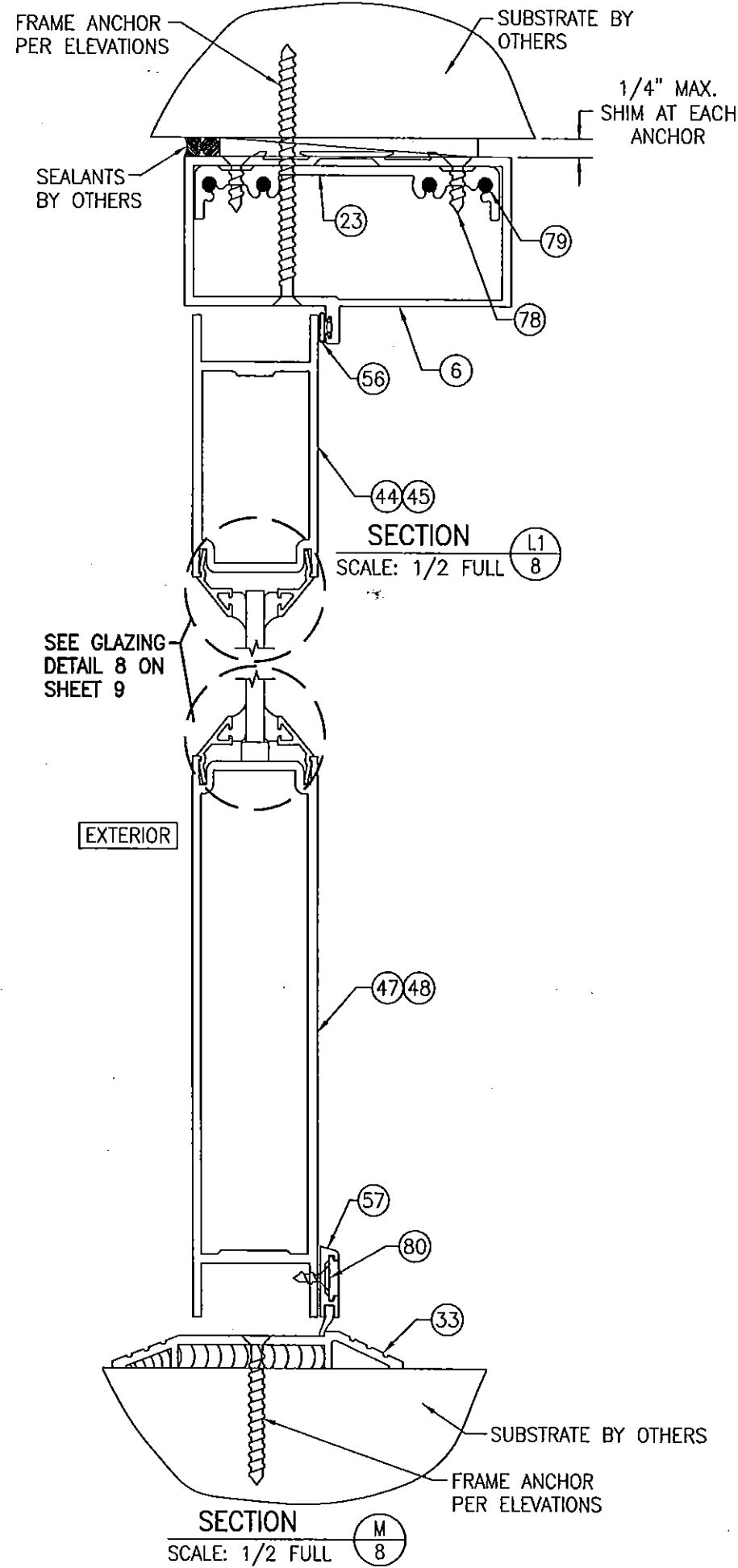
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PLOT: 1-2	DATE: 10/17/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JUL 24 2014	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1441	REV. D
SHEET NO. 6 OF 11	



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PLOT: 1-2		DATE: 10/17/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JUL 24 2004		DRAWING NO. 1441	
		REV. D	
		SHEET NO. 7 OF 11	

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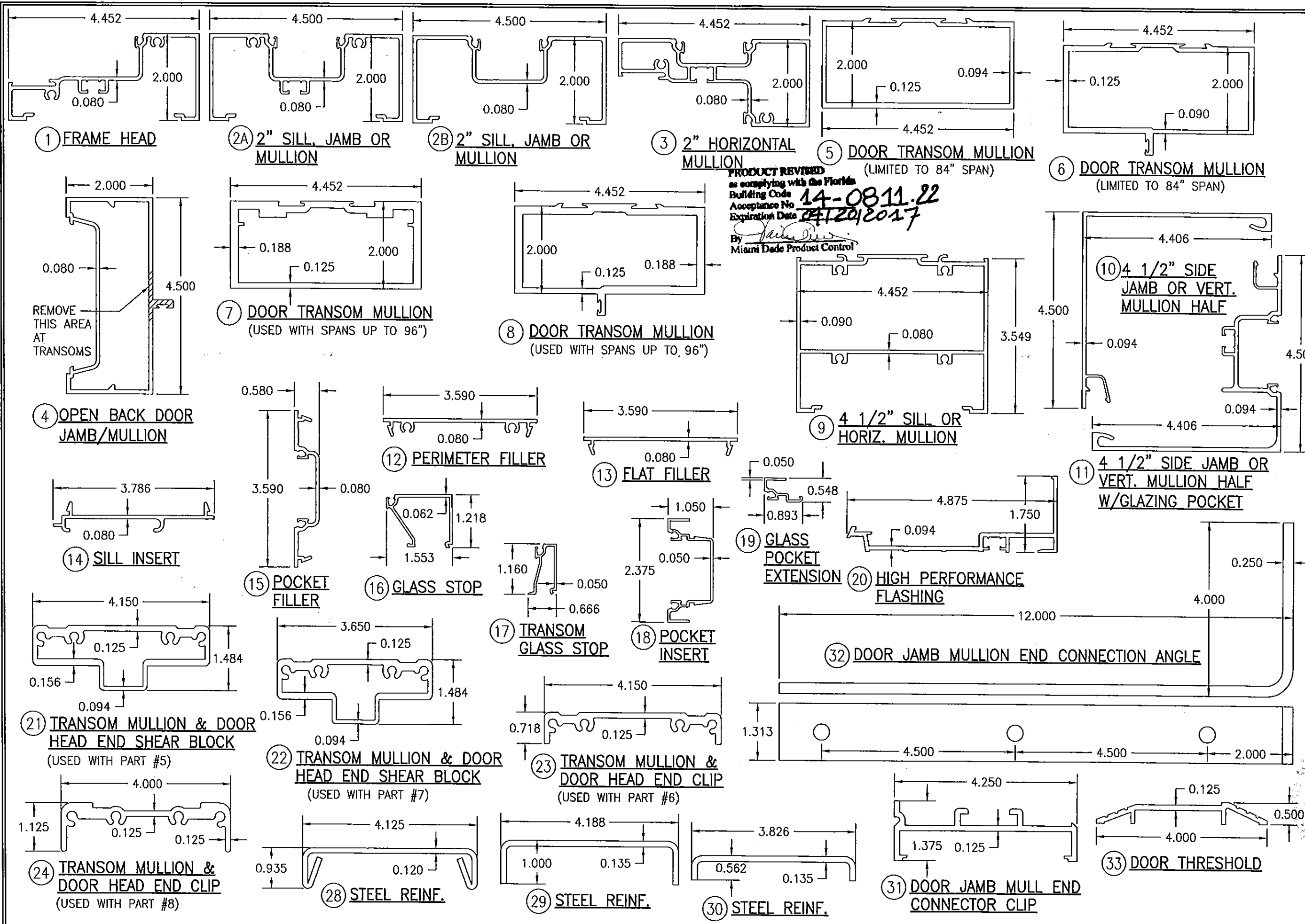


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PLOT: 1-2		DATE: 10/17/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION	JUL 24 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1441	REV. D		
SHEET NO. 8 OF 11			

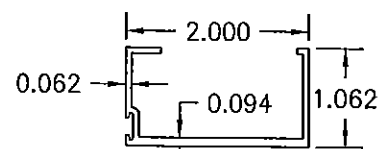
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<p><b>DRAWING TITLE</b></p> <p><b>TRIFAB 451 NON-IMPACT STORE FRONT &amp; ENTRANCE WAY SYSTEM</b></p>		<p><b>CONSULTANTS</b></p> <p><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b></p> <p>7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424</p>			
<p><b>DRAWN BY:</b> K.P.S.</p> <p><b>PLOT:</b> 1=2</p>		<p><b>CHECKED BY:</b> W.W.S.</p> <p><b>DATE:</b> 10/17/05</p>			
<p><b>NO.</b></p>		<p><b>REVISION DESCRIPTION</b></p>		<p><b>BY</b></p> <p><b>DATE</b></p>	



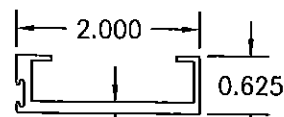
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DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/17/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44133	
CERTIFICATION: JUL 24 2014		DRAWING NO. 1441	
		REV. D	
		SHEET NO. 10 OF 11	

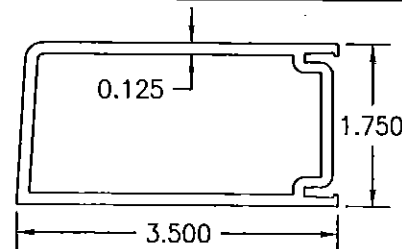
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
<b>PARTS</b>			
1	451-CG-003	FRAME HEAD	6063-T6 ALUMINUM
2A	451-012	1 3/4" SILL, JAMB OR MULLION	6063-T6 ALUMINUM
2B	451-CG-001	1 3/4" SILL, JAMB OR MULLION	6063-T6 ALUMINUM
3	451-CG-011	1 3/4" HORIZONTAL MULLION	6063-T6 ALUMINUM
4	575-054	OPEN BACK DOOR JAMB/MULLION	6063-T6 ALUMINUM
5	451-079	DOOR TRANSOM & TRANSOM MULLION	6063-T6 ALUMINUM (MULLION LIMITED TO 84" SPAN)
6	451-020	DOOR TRANSOM & TRANSOM MULLION	6063-T6 ALUMINUM (MULLION LIMITED TO 84" SPAN)
7	118-081	DOOR TRANSOM MULLION	6063-T6 ALUMINUM
8	451-075	DOOR TRANSOM MULLION	6063-T6 ALUMINUM
9	450-027	4 1/2" SILL OR HORIZ. MULLION	6063-T6 ALUMINUM
10	450-017	4 1/2" SIDE JAMB OR VERT. MULL HALF	6063-T6 ALUMINUM
11	451-CG-015	4 1/2" SIDE JAMB OR VERT. MULL HALF	6063-T6 ALUMINUM
12	451-CG-163	PERIMETER FILLER	6063-T6 ALUMINUM
13	450-126	FLAT FILLER SHIM SUPPORT	6063-T6 ALUMINUM
14	451-HP-126	SILL INSERT	6063-T6 ALUMINUM
15	451-CG-002	POCKET FILLER	6063-T6 ALUMINUM
16	451-CG-004	GLASS STOP	6063-T6 ALUMINUM
17	450-022	TRANSOM GLASS STOP	6063-T6 ALUMINUM
18	451-026	POCKET INSERT	6063-T6 ALUMINUM
19	575-056	GLASS POCKET EXTENSION	6063-T6 ALUMINUM
20	451-HP-037	HIGH PERFORMANCE FLASHING	6063-T6 ALUMINUM
21	450-548	TRANSOM MULL & DOOR HEAD END SHEAR BLOCK	6063-T6 ALUMINUM (USED WITH PART #5)
22	400-140/141	TRANSOM MULL & DOOR HEAD END SHEAR BLOCK	6063-T6 ALUMINUM (USED WITH PART #7)
23	450-506	TRANSOM MULL & DOOR HEAD END CLIP	6063-T6 ALUMINUM (USED WITH PART #8)
24	118-049	TRANSOM MULL & DOOR HEAD END CLIP	6063-T6 ALUMINUM (USED WITH PART #8)
28	450-110	FIXED PANEL VERT. MULL STEEL REINFORCEMENT	50 KSI STEEL
29	575-300	DOOR JAMB MULL STEEL REINFORCEMENT	50 KSI STEEL
30	575-301	DOOR JAMB MULL STEEL REINFORCEMENT	50 KSI STEEL
31	575-298	DOOR JAMB MULL END CONNECTOR CLIP	6063-T6 ALUMINUM
32	575-299	DOOR JAMB MULL BASE END CONNECTION ANGLE	50 KSI STEEL
33	069-139	DOOR THRESHOLD	6063-T6 ALUMINUM
34	041-045	SAM II DOOR STOP	6063-T6 ALUMINUM
35	069-214	LCN DOOR STOP	6063-T6 ALUMINUM
36	200-005	BEVELED DOOR STILE "350"	6063-T6 ALUMINUM
37	200-002	BEVELED DOOR STILE "190"	6063-T6 ALUMINUM
38	200-012	CONT. HINGE DOOR STILE "350"	6063-T6 ALUMINUM
39	200-011	CONT. HINGE DOOR STILE "190"	6063-T6 ALUMINUM
40	200-007	INACTIVE DOOR MEETING STILE "350"	6063-T6 ALUMINUM
41	200-004	INACTIVE DOOR MEETING STILE "190"	6063-T6 ALUMINUM
42	200-006	ACTIVE DOOR MEETING STILE "350"	6063-T6 ALUMINUM
43	200-003	ACTIVE DOOR MEETING STILE "190"	6063-T6 ALUMINUM
44	200-023	DOOR TOP RAIL "350"	6063-T6 ALUMINUM
45	200-020	DOOR TOP RAIL "190"	6063-T6 ALUMINUM
46	200-024	LCN DOOR TOP RAIL "350"	6063-T6 ALUMINUM
48	200-030	DOOR BOTTOM RAIL "390"	6063-T6 ALUMINUM
49	233-013	DOOR CROSS RAIL	6063-T6 ALUMINUM
50	033-105	CROSS RAIL COVER	6063-T6 ALUMINUM
51	200-041	DOOR GLASS STOP	6063-T6 ALUMINUM
<b>SEALS AND SEALANTS</b>			
56	027-078	BULB WEATHERSTRIPPING	ALCRYN
57	200-795	DOOR BOTTOM SWEEP ASSEMBLY	VARIED
58	200-496	ASTRAGAL WEATHERSTRIPPING	VARIED
59	027-074	PUSH-ON GASKET	EPDM
60	027-563	DOOR WEATHERING	EPDM
<b>HARDWARE</b>			
63	050-821	CONTINUOUS GEAR HINGE	BY HAGER/ROTON
64	037-232	BUTT HINGE (3 PER PANEL)	BY HAGER
65	050-322	TOP OFFSET PIVOT	BY KAWNEER
	050-331	INTERMEDIATE OFFSET PIVOT	BY KAWNEER
65	050-326/327	RH/LH BOTTOM OFFSET PIVOT	BY KAWNEER
66	-	MS 1850 3-POINT LOCK	BY ADAMS-RITE (NOT APPLICABLE WITH 190 DOORS)
67	050-079	FLUSH BOLT LOCK	BY KAWNEER
68	-	CONSEALED ROD EXIT DEVICE	DOROMATIC 1690
69	-	CONSEALED ROD EXIT DEVICE	PANELINE CR90
70	-	CONSEALED ROD EXIT DEVICE	JACKSON 2086
71	-	CONSEALED ROD EXIT DEVICE	KAWNEER 1686
72	-	OVERHEAD CONCEALED DOOR CLOSER	BY KAWNEER OR LCN
73	-	SURFACE DOOR CLOSER	BY NORTON
74	C09 OR CPN	PUSH/PULL DEVICE	BY KAWNEER
<b>MISCELLANEOUS FASTENERS</b>			
78	-	NO. 10 X 1 1/4" S.S. SCREW	2 PER CLIP
79	-	NO. 10 X 1 1/2" S.S. SCREW	4 PER CLIP
80	-	NO. 6 X 3/8" S.S. SCREW	7 PER DOOR SWEEP
81	-	NO. 6 X 3/4" SCREW	10 PER DOOR LEAF MAX.
82	-	NO. 10 X 1 5/8" S.S. SCREW	8 PER STOP
83	-	NO. 10 X 1" S.S. SCREW	5 PER STOP
84	-	1/4" X 5/8" S.S. SCREW	6" FROM ENDS & 12" MAX. O.C.
85	-	NO 10-24 X 3/8" S.S. SCREW	1 AT CENTER



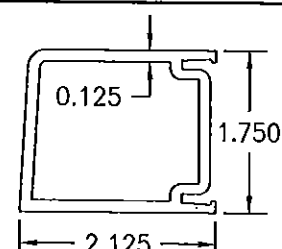
34 SAM II DOOR STOP



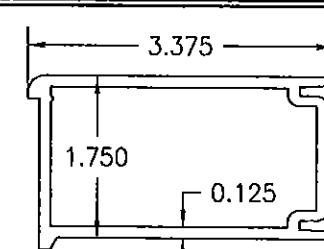
35 LCN DOOR STOP



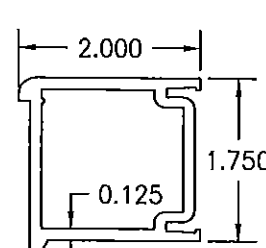
36 BEVELED & PIVOT  
HINGE DOOR STILE  
(350 WIDE STILE)  
(ALSO SINGLE DOOR LOCK STILE)



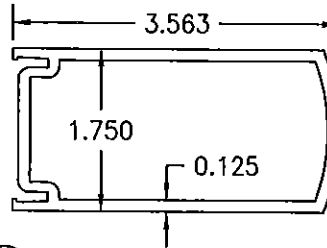
37 BEVELED & PIVOT  
HINGE DOOR STILE  
(190 NARROW STILE)  
(ALSO SINGLE DOOR LOCK STILE)



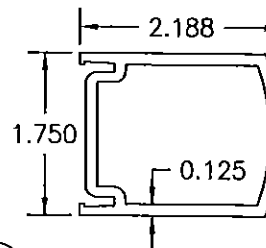
38 CONTINUOUS HINGE  
DOOR STILE (350  
WIDE STILE)



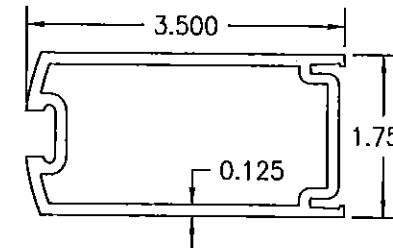
39 CONTINUOUS HINGE  
DOOR STILE (190  
NARROW STILE)



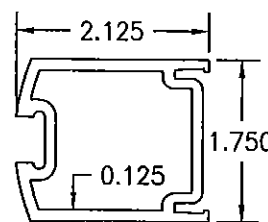
40 INACTIVE DOOR  
MEETING STILE (350  
WIDE STILE)



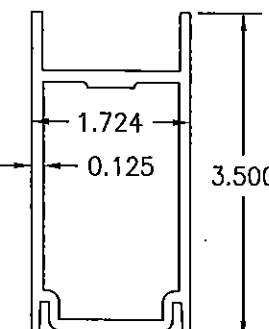
41 INACTIVE DOOR  
MEETING STILE (190  
NARROW STILE)



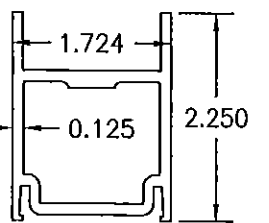
42 ACTIVE DOOR MEETING  
STILE (350 WIDE STILE)



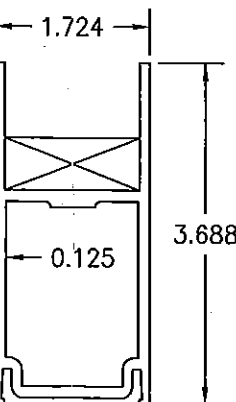
43 ACTIVE DOOR  
MEETING STILE (190  
NARROW STILE)



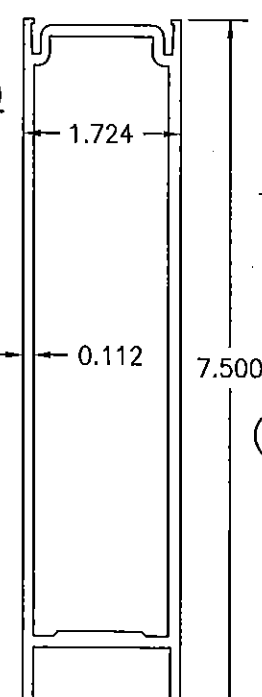
44 DOOR TOP RAIL  
(350 WIDE STILE)



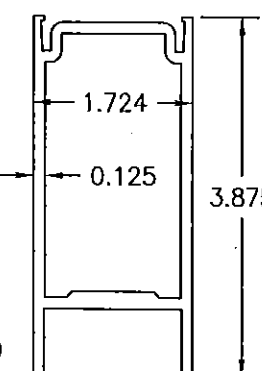
45 DOOR TOP  
RAIL (190  
NARROW STILE)



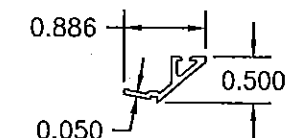
46 LCN DOOR TOP  
RAIL (350 WIDE  
STILE)



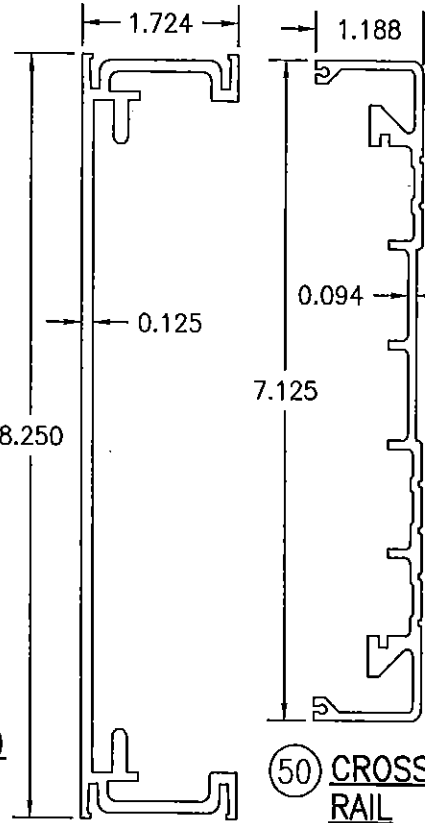
47 DOOR BOTTOM  
RAIL (350 WIDE  
STILE)



48 DOOR BOTTOM  
RAIL (190  
NARROW STILE)



49 DOOR  
CROSS RAIL



50 CROSS  
RAIL  
COVER

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0811.22  
Expiration Date 04/20/2017  
By *[Signature]*  
Miami Dade Product Control

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 10/17/05	
DATE: 07/18/07	BY: W.W.S.	DATE: 07/18/07	BY: W.W.S.
REVISION DESCRIPTION	NO. 1	REVISION DESCRIPTION	NO. 1
CHANGED ITEM NUMBER 8 TO PART #451-075	A1	CHANGED ITEM NUMBER 8 TO PART #451-075	A1
DRAWING TITLE: TRIFAB 451 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: JUL 24 2014			
DRAWING NO. 1441			
SHEET NO. 11 OF 11			